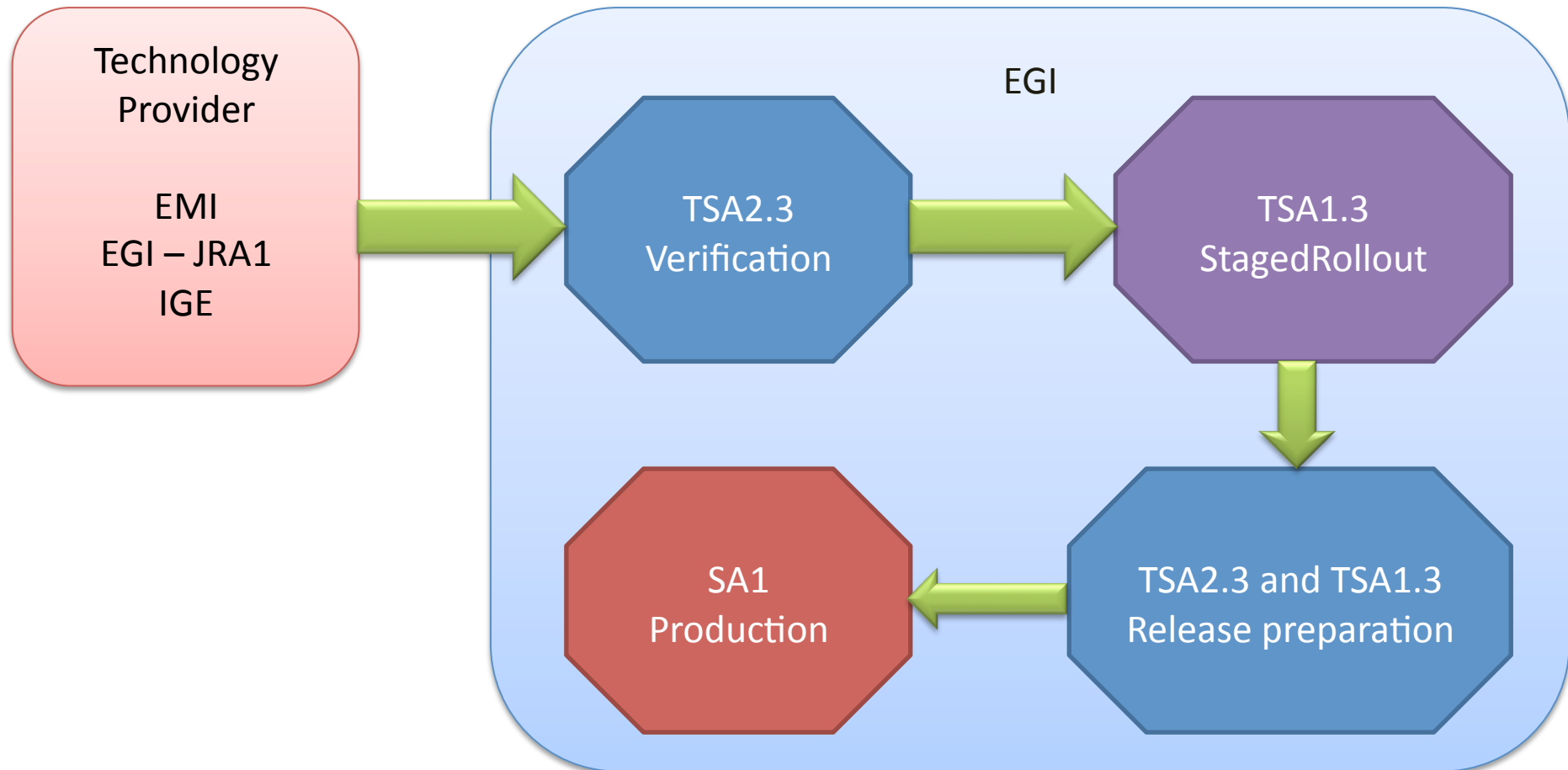


Staged rollout in EGI

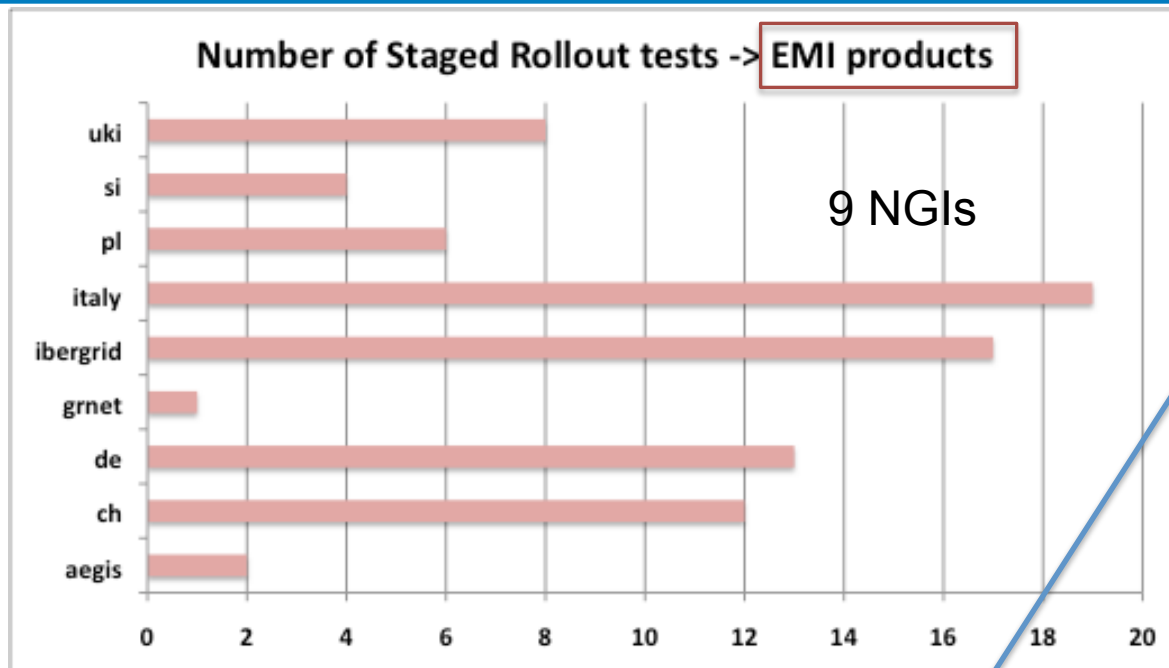
Mario David
TSA1.3



- UMD release:
 - EGI takes SW products from the technology providers (EMI and IGE at the moment).
 - Produce a provisional list of products that are “*candidates*” for the UMD release.
 - Put’s them through the SW provisioning workflow:
 - Verification: verifies generic and specific quality criteria.
 - Staged rollout: deploys and configures the product in production instances.
- Staged rollout relies on Early Adopter sites that are the first ones to deploy the new versions in production, before general availability.
- **The products passing successfully the SW provisioning will be included into the UMD release.**

- To support the SW provisioning:
 - <https://wiki.egi.eu/wiki/Staged-rollout-procedures>
 - <https://www.egi.eu/earlyAdopters/table>
 - <https://www.egi.eu/earlyAdopters/teams>

Some statistics: as of UMD1.2



of EAs = 49
(committed to EMI products)

of EAs = 22
(Actually doing the tests)

of Staged Rollouts = 82

of Products = 47
(some products more than 1 version)

of Products rejected = 3

Products **no EA coverage**:

- **FTS**
- **LFC Oracle (may have 1 EA)**
- **VOMS Oracle**
- **HYDRA (not yet released)**

NGIs/ROCs... in GOCDB = 38

sites (from gstat) = 384

EMI products: 37

EMI products in UMD: 31

$$\frac{\#EA}{\# Sites} = 5.6\%$$

- Huge load: large number of EMI products to be verified and staged rollout:
 - 1st Major release.
 - Several updates: more than 1 version of a product in the SW provisioning almost in parallel or close in time.
- FTS, VOMS Oracle, LFC Oracle: main interested parties are WLCG T0 and T1 -> waiting further progress for verification and staged rollout.
- dCache is taken by sites from dcache.org and ARC is taken by most sites from nordugrid.org:
 - Release in EMI/UMD has somewhat outdated versions.
- ***Sites strive for stability and as low as possible up(grade/date) rate.***
- ***BUT: Sites will “jump” for new versions if they have real, annoying, high impact issues.***

- EMI release rate is set around every 3 weeks:
- UMD release rate is planned to be quarterly after UMD 1.3:
 - Except for urgent updates or security vulnerabilities.
- **Verification and staged rollout have detected and open a quite large number of GGUS tickets: 50+ GGUS tickets:**
 - Some of those issues appeared only in the production environment (i.e. staged rollout),
 - Some have to do with documentation,
 - Configuration issues...

- Staged rollout has been done in production instances in some cases, but also in **test** instances that are included in production:
- *“Need to be involved earlier (much earlier) in beta testing, so that any issues that are discovered can be solved before the actual certification in EMI, and thus make it the next round of updates”.*
- We still need more EA teams even for already covered products:
 - *Although ~ 100% of sites expect to have stable, robust, etc. MW products, there is a “price” to get there.*

- UMD1.3 by the end of October.
- The “*price*” of being early adopter (EA) will (***hopefully***) compensate later in more stable and robust SW.
- In staged rollout, issues maybe found by 1 EA and not by others:
 - ***More EA teams for each product gives “redundancy”, “failover”, “backup”.***
 - ***There is testing going in the “wild” we don’t know about, reporting through the staged rollout is a way to share knowledge and document issues.***